

MAY 1 1997



JOINT INTEROPERABILITY AND ENGINEERING ORGANIZATION

DEPARTMENT OF DEFENSE

SYMBOLOGY INFORMATION TECHNOLOGY STANDARDS

MANAGEMENT PLAN

SUPPLEMENT 1
CONFIGURATION MANAGEMENT

FOREWORD

JIEO Plan 3200, Department of Defense (DOD) Information Technology Standards Management Plan (ITSMP), November 1993 (reference a), completed a step in the implementation of the Defense Information Systems Agency's (DISA's) Information Technology Standards (ITS) Executive Agent (EA) responsibilities. The Symbology ITS Management Plan (SITSMP) establishes the procedures and defines the responsibilities of implementing the guidance and direction of DOD's ITS EA, contained in JIEO Plan 3200, as they apply to symbology. The SITSMP establishes the Symbology ITS management process as the mechanism to provide the integration, coordination, testing, validation, and configuration management necessary to achieve, implement, and maintain information technology standards in the use and display of symbology. The goal of the process is to improve interoperability, effectiveness, and efficiency, and to reduce costs by applying uniform standards.

As a supplement to the *SITSMP*, this draft *Configuration Management Plan* establishes the procedures necessary to achieve symbology standardization through the configuration control of symbology in support of Command, Control, Communications, Computers, and Intelligence (C4I).

This supplement has been coordinated within DOD and other Federal departments and agencies on matters concerning the application of C4I symbology.

Director of Defense Information

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1. SCOPE

- **1.1 Scope**. This plan defines how DISA, with support from the Commanders in Chief (CINCs), Services, and Agencies (C/S/As), will execute configuration management on the development of symbology in support of C4I system processes, practices, operations, services, interfaces, connectivity, interoperability, information formats, interchanges, processing, transmission, and transfer based on validated C/S/A functional needs. This plan encompasses ITS used to display C4I-related symbology for national security purposes during system development, testing, fielding, enhancement, and life cycle maintenance.
- **1.2 Purpose**. The Symbology Configuration Management Plan establishes the configuration management (CM) processes to identify, develop, document, and implement changes to C4I symbology through the ITSMP. The CM process applies to the entire cycle of symbology-related documents from the initial development of baseline documents through the dissemination of changes and revisions to these documents.
- **1.3 Applicability**. The provisions of this plan apply to all DOD components that acquire, use, and/or display symbology information, and to U.S. Government agencies outside of the DOD who have memorandums of agreement (MOAs) with the DOD to participate in the standardization of symbology information technology standards.
- **1.4 CM process**. CM is a disciplined way of applying technical and administrative direction and surveillance to the life cycle of a configuration item (CI). The steps that help establish, define, and document the CM process are as follows:
- a. Identifying and documenting a CI in terms of the service description or functional requirements the standard should fulfill.
- b. Controlling and processing proposed changes to the CI through the submission of change proposals (CPs) and the approval of a configuration control board (CCB).
- c. Status accounting through a listing of the latest version of the standard and status of all CPs.
- d. Auditing the CI through testing to ensure that the standard and approved CPs fulfill the functional requirement.
- e. Establishing configuration baselines to ensure an orderly transition from one commitment point to another.

- **1.5** References. References used to develop this plan are listed in appendix B.
- **1.6 Authority**. The Secretary of Defense (SECDEF) is the DOD Corporate Information Management (CIM) authority. The Assistant Secretary of Defense for Command, Control, Communications, and Intelligence (ASD(C3I)) is the delegated authority for information technology policy, guidance, and administration, according to the 16 November 1990 Office of the Secretary of Defense (OSD) Memorandum, "Implementation of Corporate Information Management Principles" (reference b). In the 3 September 1991 ASD (C3I) Memorandum, "Executive Agent for DOD Information Standards" (reference c), the Director, DISA, is assigned the EA responsibility for coordinating and integrating all of DOD's information standards activities.

1.7 Policy.

- **1.7.1 Establishing CM for symbology**. Symbology CM is established and exercised by DISA's Joint Interoperability and Engineering Organization (JIEO) Center for Standards (CFS) in conformance with applicable DOD management policies to achieve and maintain interoperability with the use and/or display of symbology.
- **1.7.2 Provisions of CM plan**. This plan provides specific details for the CM of symbology support applications, assigns responsibilities, and outlines the CP process.
- **1.8 Responsibilities**. Established in conformance with JIEO Plan 3200 (reference a) and chartered by the Standards Coordinating Committee (SCC) (reference e), the Symbology Standards Management Committee (SSMC) is the CM forum for the development and maintenance of symbology. The responsibilities of the participants are listed in chapters 2 and 3.
- **1.9** Acronyms and abbreviations. Acronyms and abbreviations used in this plan are listed in appendix A.

1.10 Security.

- **1.10.1 Protection of symbology documents**. Record copies of the documents supporting the CM process are maintained and safeguarded according to applicable DOD regulations and directives.
- **1.10.2 Classification of symbology documents**. Security classification and document dissemination procedures are performed according to the provisions of DOD Regulation 5200.1-R (reference f) and of any department or agency that is implementing these regulations.
- **1.10.3 Public release of information**. The public release of symbology information is conducted according to the previously noted security classification guides. DOD Directive

(DODD) 5230.9 (reference g) is the guide for the public release of other interface and management documents.

- **1.11 Supersession**. This document is the initial issue of the *Symbology CM Plan*.
- **1.12 Supplementation**. CFS activities have the authority to supplement this plan as required. Other DOD activities must obtain the authority to supplement this document from the CFS Information Standards Division.
- **1.13 Changes**. Change proposals are submitted by the originator through their respective C/S/A SSMC representative. If the SSMC representative agrees with the proposed change, it is forwarded for additional review and processing to the following address:

DISA/JIEO/CFS ATTN: Information Standards Division Parkridge III, Room 3304 10701 Parkridge Boulevard Reston, Virginia 20191-4357

1.14 WEB access. The Symbology Home Page may be accessed on the Internet using the following address:

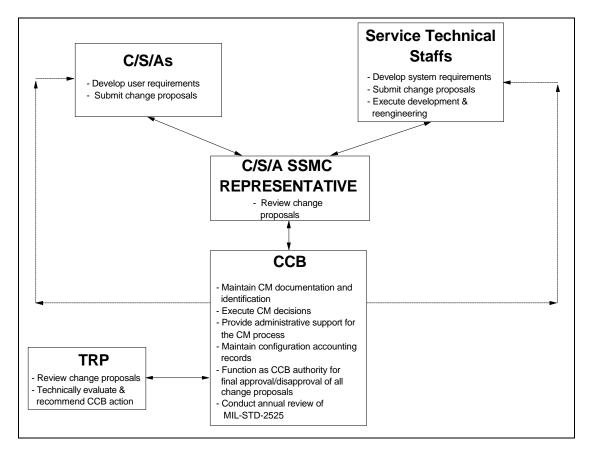
http://www-symbology.itsi.disa.mil/symbol

1.14.1 Request for password. Users requiring access to password protected information may request a password using the symbology POC located at the bottom of the Symbology Home Page or by writing to the address listed below. Users must include their name, organization, and justification in the request.

DISA/JIEO/CFS ATTN: Information Standards Division Parkridge III, Room 3304 10701 Parkridge Boulevard Reston, Virginia 20191-4357

2. APPROACH

2.1 Overview. Defense Information Systems Agency(DISA), Joint Interoperability and Engineering Organization (JIEO), Center for Standards (CFS) is responsible for identifying symbology information technology standards (ITS), maintaining documentation, executing Configuration Control Board (CCB) decisions, providing administrative support for configuration control processes, and maintaining configuration accounting records. All configuration management (CM) changes to symbology development will be controlled using a formal change proposal (CP) process. Proposed changes will be submitted to the CFS, who will ensure that each CP is identified, accounted for, and entered into the review process. Following the review process, the CCB will approve or disapprove the CP. If the CP is approved, it will be entered into the change implementation process for incorporation into the baseline document. If the CP is disapproved, the decision can be appealed (see 3.9). As the focal point for establishing and maintaining symbology CM, the CFS will also oversee, maintain, and manage the Symbology Technical Library, which will contain the approved baselines for all C4I symbology activities. The basic CM program can be seen in figure 1.



2.1

- **.1 Achieving CM goals**. Full participation of the CINCs, Services, and Agencies (C/S/A), service technical staffs, the service laboratories, and Defense Standardization Program (DSP) activities is necessary to achieve CM goals. The CFS is responsible for coordinating the work effort, programming, and allocating necessary resources for implementing the symbology CM program.
- 2.2 CM program responsibilities. DISA has overall authority for the configuration management of symbology. To achieve interoperability within the development and maintenance of symbology, responsibilities have been assigned to appropriate committees, panels, and organizations. In the IT standards management structure, the Standards Coordinating Committee (SCC) is the primary DOD forum for IT standards matters. It is chaired by the Director of the CFS, which provides execution of the program. Subordinate to this group is the Symbology Standards Management Committee (SSMC) which provides oversight of the symbology standards program activities. The SSMC is composed of representatives of the C/S/As and other members of the Federal government. Figure 2 provides the organizational responsibilities for ensuring the configuration management of symbology. The following responsibilities provide the direction and authority within configuration management.

2.2.1 C/S/A responsibilities.

- a. Provide change proposals as required to accurately maintain the symbology standards document.
- b. Provide representatives to CM working groups (e.g. SSMC, CCB) as required, with authority to present the C/S/A position on symbology issues.
 - c. Actively participate in configuration management forums (e.g. SSMC, CCB).
 - d. Review and comment on configuration managed symbology standards items.
- e. Identify, program, and budget for resources to accomplish their portion of the symbology standards CM program.

2.2.2 DSP activity responsibilities.

- a. Provide change proposals as required to accurately maintain the symbology standards document.
 - b. Provide representatives to CM working groups (e.g. SSMC, CCB) as required.
 - c. Actively participate in configuration management forums (e.g. SSMC, CCB).

- d. Review and comment on configuration managed symbology standards items.
- e. Identify, program, and budget for resources to accomplish their portion of the symbology standards CM program.

2.2.3 CFS responsibilities.

- a. Act as administrator for Symbology standards.
- b. Organize, support, and chair the SSMC.
- c. Establish and chair TRPs as required.
- d. . Identify symbology configuration items.
- e. Maintain a symbology technical library consisting, at a minimum of the symbology program baseline, data base of symbols, management documents, and CM documentation.
 - f. Fund and manage all CM administrative activities for symbology standards.
- g. Identify, program, and budget for resources to accomplish their portion of the symbology standards CM program.

2.2.4 SSMC responsibilities.

- a. Final authority (when acting as CCB) for approval or disapproval of symbology change proposals.
- b. Ensure that all additions, changes, and deletions to CPs have been coordinated, certified, documented, and meet prescribed technical and functional requirements.
- c. As CCB, establish symbology Technical Review Panels (TRP) as required (see 2.2.4) to evaluate and propose recommended solutions to technical issues.
- d. Resolve technical issues and symbology policy issues assigned to it by the SCC, C/S/As, ASD(C4I) for the Joint Staff.
 - e. Conduct annual review of the symbology standard (see 2.5).

2.2.4.1 C/S/A SSMC member responsibilities.

- a. Ensure respective C/S/As have procedures for submitting symbology CPs through the SSMC representative, with follow on notification of accepted CPs and their implementation schedule.
- b. Identify, program, budget, and provide resources to accomplish their portion of the CM program.
 - c. Represent their C/S/A during SSMC meetings.
- d. Upon request from CCB Chairman, submit personnel recommendations to participate on TRPs.

2.2.5 TRP responsibilities.

- a. As required by the CCB, evaluate CPs regarding technical feasibility, impact on the C/S/As, and suitability for incorporation into the existing documentation.
- b. Advise the CCB when a CP impacts on an external baseline beyond what is described in the change proposal.
 - c. Recommend testing of the change to the CCB, if deemed necessary.
- **2.3 Symbology technical library**. The symbology technical library will contain at a minimum of, the symbology program baseline, data base of symbols, management documents, and CM documentation. The symbology program, including the approved baselines for all C4I symbology activities, will be available on the world wide web (WWW) in Portable Document Format (PDF). The actual documentation supporting the symbology program will be stored at the facility which maintains the home page for DISA. The technical library will enable interested parties to access symbology information at any time.
- **2.4** Identification. Configuration identification includes the selection of CIs, the determination of the types of documentation required for symbology development and maintenance, the issuance of version numbers and other identifiers affixed to the CI and CI documentation, the release of CIs and associated documentation, and the establishment of configuration baselines for CIs. Identification of software for configuration control will be determined based on the needs and requirements of the C/S/As and the C4I community.
- **2.5** MIL-STD-2525 revision. The SSMC will review MIL-STD-2525 annually. Specific criteria for revising the document will be determined by the SSMC to include an assessment of how current and accurate the document is, and the number of change proposals approved (with CP decision issued) by the CCB but not yet incorporated in the document.

Th pul	e annual review will result in update the baseline, establishing an implementation date, and reblishing the standard if necessary.		
3.	. CHANGE PROPOSAL AND IMPLEMENTATION PROCESS.		

3.1 Procedures for submitting a symbology change proposal. This section provides the

process for approving and implementing recommended changes to existing symbology development and maintenance. This process provides for the submission, coordination, evaluation, and disposition of CPs, to include a process for appeal and implementation. Figure 2 outlines the CP process. The CCB will define specific administrative and editorial requirements for the submission of CPs. This will include defining a priority system to communicate urgency for processing the CP and specified categories that define the CP. The CCB will specify time lines for submitting CPs and ensure that sufficient time is allotted to process and distribute the CPs.

- **3.2** Submission of a change proposal. A CP may be generated by JIEO or C/S/As and their corresponding laboratories and technical staff. Each change proposal is submitted on a CP form (appendix C) through the respective C/S/A SSMC office for review. If the SSMC representative determines that the CP is valid, it will be submitted by that representative to the CM administrator. Submitters will complete the submitting organization and comment blocks and comply with the administrative procedures defined by the CCB. As a minimum, the change proposals will contain basic information that details a problem statement, a proposed solution, and an analysis of impacts (from the originator's perspective) on the identified baseline as well as other baselines. The CP will be placed in an area on the appropriate section of the WWW symbology home page from which the SSMC members can upload electronic information for CM appreciation. The WWW provides a two-way communication link between JIEO, and the C/S/As, to conduct CM work. Originators should check the bulletin board on a daily basis to insure that they have the most current status, and so that the opportunity to appeal decisions is not missed. Each of the C/S/As and JIEO has full access to upload and download CP information from these bulletin board areas. Once a CP is submitted, any change it may require must be submitted by the originator through their respective C/S/A SSMC representative who will direct it to the CCB. The CCB will incorporate the change as appropriate.
- 3.3 The CCB administrative review and evaluation. When the CM administrator becomes aware that a proposed CP has been electronically submitted by a C/S/A or DSP activity, it is downloaded for initial administrative review and control. The CM administrator reviews the CP to assess administrative completeness and correctness. When possible, the CM administrator will include any necessary administrative changes to the proposal after coordination with the originator, or simply return the CP to the originator for correction. When the administrative format is correct, the proposed change is accepted by the CM administrator or the CCB chairman. Once the CP is administratively complete and correct, the CM administrator reviews the CP for technical adequacy and impact on other programs. If a more technical evaluation is required, the CM administrator will form a TRP to analyze the CP.

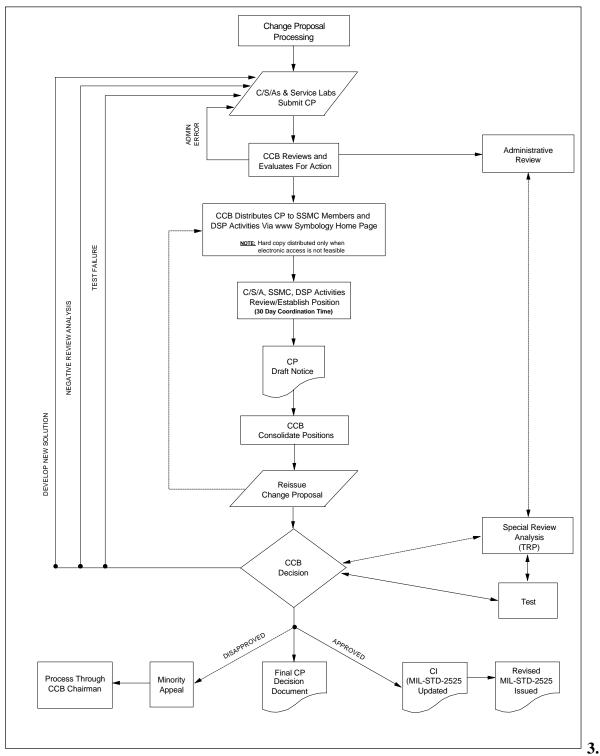


FIGURE 2. Change proposal process

CCB distribution of a change proposal. Upon completion of the administrative review and incorporation of required changes to make the proposed change accurate and complete, the change is placed on the WWW symbology home page in a general area to which SSMC members and specific DSP activities, interested in the baseline, have access for downloading, but only the CM administrator or CCB chairman can upload. This restriction ensures the CM authority's ability to maintain the integrity of the CP as it continues through the review process. A broadcast message alerting all SSMC members and specific DSP activities that a new CP is in the general area for review is sent over a messaging system, such as the Internet. Hard copies of the CP will be sent if required, but only to those not yet having the means to receive the electronic copy. If issues arise in which the CM administrator cannot accept the CP as a proposed change, a formal CCB will be convened to resolve the matter.

- 3.5 Review of the CP by C/S/As and specific DSP activities. The C/S/As and specific DSP activities are required to staff and evaluate the CP and forward their recommendations through their respective SSMC representative to the CCB. If a specific DSP activity is not represented on the SSMC, their response will be forwarded directly to the CCB Chairman. The C/S/A's and DSP activities evaluations must, as a minimum, evaluate the proposed change's impact on their systems, doctrine, and operating procedures. Additionally, the evaluation should ensure that the change is completely and properly integrated into the standard to maintain a clear and consistent baseline. Lastly, the evaluation should address the organization's intention and ability to implement the proposed change with an anticipated date of the implementation, any differences in opinion concerning impact on other baselines, and the requirements for testing. Consolidating points then prepare a single evaluation for each CP and electronically submit it to the CCB through JIEO.
- **3.6 CCB review**. After receiving evaluations from all C/S/A and DSP activity consolidating points, or the passing of a predefined period of time, the CCB Chairman will review each evaluation in detail for acceptable changes to the proposed solution from a joint perspective. Once the evaluations are accepted by the CCB Chairman, each is uploaded to the CM common area for member appreciation and later reference. If all CM members are in agreement and no substantive comments are received, the CCB Chairman will assume participants' concurrence with the proposed change and will enter the CP as an approved item into the CI process. (The CM administrator will update the CP tracking log.)
- 3.7 Reissue change proposal. If the C/S/A or specific DSP activity reviews include substantive comments, the CCB Chairman will examine the comments to determine if a revised CP could be produced that would increase the possibility of acceptance. If so, the CM administrator will update the proposed CP incorporating all acceptable changes, update the CP tracking number to indicate an updated version (e.g. 1421 to 1421a), update the CP tracking log, and upload the revised CP on the WWW for members to review in consideration of the C/S/A and DSP activity evaluations previously provided. The C/S/As

and DSP activities will initiate a new round of evaluations and the consolidation of evaluations to develop a new position/evaluation on the revised CP. This new position will be uploaded for JIEO review and evaluation. This process will continue until the CP receives concurrence from all participants or until it is apparent that a consensus position cannot be achieved without a formal CCB meeting. In this case, the CP will be placed on a list of proposed changes for consideration at the next scheduled meeting of the CCB.

- **3.8 Final CCB decision**. A CP decision may be achieved during CP processing through the achievement of a consensus of all principal members. In all other cases, a CP decision is accomplished during a CCB meeting. Regardless of the form or location of these meetings, the CCB will discuss the technical and policy merits of each proposed CP, consider the previously provided C/S/A and DSP activity evaluations of the CP, and dispose of the CP in one of five ways:
- a. Decide that more in-depth technical review and analysis is required and forward the CP to an existing technical body, or form a technical body to consider the CP.
- b. Approve the CP for testing only. The CCB coordinate funding requirements for testing and can/will forward the CP to a testing agency, normally the Joint Interoperability Test Command (JITC), to conduct interoperability testing. The results of the tests will be provided back to the CM body for review and action.
- c. Agree with the problem statement but disagree with the proposed or alternate solution. In this case, the CP is returned to the originator for rework in consideration of member comments. The originator now develops a new solution. Time frame for resubmission of the CP is 90 days.
 - d. Disapprove the CP and return it to the originator based on negative review analysis.
 - e. Approve the CP and agree to an implementation date.

A CP decision notice is issued for each CP that has received final CM disposition (approval or disapproval) by the CCB. This decision notice will detail the CP process and rationale leading to the CCB approval or disapproval. While a CP decision is being prepared and distributed, the CP is converted by the CM administrator into a final version incorporating all approved changes. The final CP is incorporated into an interim baseline and distributed electronically to all members. The CP status log is updated.

Note: Initially, these CCB meetings must take place at a central location with each principal and technical support in attendance. In the future, the possibility exists that video teleconferencing will eliminate travel associated with face-to-face meetings. At the present time,

most of the principal CCB members do not have the necessary facilities to participate in such an electronic conference.

- **3.8.1 TRP special review analysis**. A TRP is convened by the CCB as required, for the purpose of clarifying questions or providing additional information. Input from the TRP is used to assist in determining if a CP is to be approved or disapproved.
- **3.9 Minority appeal**. Any voting member in the minority of the CM decision may declare their position substantive at the time of the vote for appeal of the decision. Appeals must be submitted to the CCB with full rationale to include the issue position and any other contrary view. The CCB member representing the minority view must submit their appeal in writing within 15 working days from the time of the CM decision. Once a CP position is declared substantive, JIEO will request that one of the C/S/As representing the majority decision develop a document presenting the majority position. JIEO will review the minority and majority positions on the subject and develop a detailed consideration of all positions. Where resolution of the issue is time critical, JIEO will request a special convening of the appropriate standards body (normally the SCC) for issue resolution. No CP in the substantive appeal process will be processed further until the appeal is resolved.
- **3.10 Configuration status accounting**. The CFS establishes and maintains an electronic status accounting system (master log) to record symbology change proposals, provide an audit trail, and identify the current edition or version of baseline documents. The log is maintained by the CFS and is made available for review by C/S/As and other interested organizations on the WWW symbology home page.
- **3.10.1 CI updated**. The timing of CP incorporation into the CI is dependent upon the CM cycle established by the CCB. The CM cycle is based on the implementation cycle or schedule of impacted systems. Approved CPs are incorporated into an evolving or interim baseline to facilitate development and evaluation of subsequent CPs. The interim baseline has an implementation date established by the CCB. A CP cannot be incorporated into the CI until it receives final approval by the CCB and a CP decision is issued.
- **3.10.2 Revised CI issued**. A formal amendment or reissue of the baseline is developed and distributed by JIEO upon CCB direction to update the baseline.

APPENDIX A

GLOSSARY

A-1 ACRONYMS AND ABBREVIATIONS

ASD (C3I) Assistant Secretary of Defense for Command, Control, Communications,

and Intelligence

CCB Configuration Control Board

CFS Center for Standards

CI Configuration Item

CIM Corporate Information Management

CINC Commander in Chief

CM Configuration Management

CP Change Proposal

C/S/A CINC/Service/Agency

CSA Configuration Status Accounting

C3I Command, Control, Communications, and Intelligence

C4I Command, Control, Communications, Computers, and Intelligence

DISA Defense Information Systems Agency

DOD Department of Defense

DODD Department of Defense Directive

DSP Defense Standardization Program

EA Executive Agent

FSC Federal Supply Code

FSG Federal Supply Group

INST Information Standards

ITS Information Technology Standards

ITSMP Information Technology Standards Management Plan

JIEO Joint Interoperability and Engineering Organization

JITC Joint Interoperability Test Command

LSA Lead Standardization Activity

MIL-STD Military Standard

MOA Memorandum of Agreement

OSD Office of the Secretary of Defense

PDF Portable Document Format

SCC Standards Coordinating Committee

SECDEF Secretary of Defense

SITSMP Symbology Information Technology Standards Management Plan

SSMC Symbology Standards Management Committee

TRP Technical Review Panel

WWW World Wide Web

A-2 DEFINITIONS

- **a.** Configuration Baseline. The configuration baseline is the configuration documentation formally designated by the government at a specific time during a CI's life cycle. Configuration baselines, plus approved changes from those baselines, constitute the current approved configuration documentation.
- **b.** Configuration Control. Configuration control is the systematic proposal, justification, evaluation, coordination, and approval or disapproval of proposed changes, and the implementation of all approved changes, in the configuration of a CI after the establishment of the configuration baseline(s) for the CI.
- **c.** Configuration Control Board (CCB). The CCB is a board composed of technical and administrative representatives who recommend approval or disapproval of proposed engineering changes to a CI's current approved configuration documentation.
- **d.** Configuration Identification. Configuration identification includes the selection of CIs; the determination of the types of configuration documentation required for each CI; the issuance of numbers and other identifiers affixed to the CIs and to the technical documentation that defines the CI's configuration, including internal and external interfaces; the release of CIs and their associated configuration documentation; and the establishment of configuration baselines for CIs.
- **e.** Configuration Item (CI). A configuration item is an aggregation of hardware or software that satisfies an end-use function and is designated by the government for separate configuration management.
- **f.** Configuration Management (CM). As applied to configuration items, this is a discipline applying technical and administrative direction and surveillance during the life cycle of items to identify and document the functional and physical characteristics of configuration items; to control changes to items and documentation; to record and report information; and to audit items to verify conformance to specifications, drawings, interface control documents, and other contract requirements.
- **g.** Configuration Status Accounting (CSA). CSA is the recording and reporting of information needed to manage configuration items effectively, including:
 - 1. A record of the approved configuration documentation and identification numbers.
 - 2. The status of proposed changes.
 - 3. The implementation status of approved changes.

- 4. The configuration of all units of the CI in the operational inventory.
- **h. Coordination.** Coordination is the process of having standardization documents reviewed and commented upon by government and private sector organizations.
- **I. Defense Standardization Program (DSP).** The DSP is responsible for standardizing materials, parts, items, components, equipments, subsystems, systems, processes, practices, and procedures essential to the design, acquisition, management, and use of materiel, facilities, and other related supplies.
- **j. Information Standards (INST).** Information standards constitute the proposed standardization area that encompasses the development, coordination, and integration of standardized information components across all functional areas within the DOD. It includes report standards; data exchange format standards; operational instructions; symbology standards; and geographic, graphic, and imagery constructs.
- **k.** Information Technology Standards (ITS). ITS are standards that provide technical definitions for information system processes, procedures, practices, operations, services, interfaces, connectivity, interoperability, information formats, interchange, and transmission or transfer. ITS apply during the development, testing, fielding, enhancement, and life cycle maintenance of DOD information systems.
- **l. Interoperability.** Interoperability is the ability of systems, units, or forces to provide services to and accept services from other systems, units, or forces, and to use the services so exchanged to operate effectively together.
- **m. Standard.** A standard is a document that establishes uniform engineering and technical requirements for processes, procedures, practices, and methods. Standards also may establish requirements for selection, application, and design criteria of material.
- **n. Standardization.** Standardization is the process of developing and agreeing upon (by consensus or decision) uniform engineering criteria for products, processes, practices, and methods.
- **o. Standardization Activity.** A DoD activity listed as SD-1 for symbology that functions as Lead Standardization Activity, Preparing Activity, participating Activity, Military Coordinating Activity, Custodian, Review Activity, Adopting Activity, or Item Reduction Activity.
- **p. Standardization Areas.** Standardization areas are categories for engineering technologies, disciplines, and practices that do not fall under a Federal Supply Code (FSC) or Federal Supply Group (FSG). The Standardization Directory (SD-1) identifies the

Standardization Areas.

- **q. Standardization Document.** "Standardization document" is a generic term for a document used to standardize an item of supply, process, procedure, method, data, practice, or engineering approach. Standardization documents include military specifications, standards, handbooks, bulletins, federal specifications and standards, guide specifications, and nongovernment standards.
- **r. Standardization Program Plan.** A standardization program plan is a document prepared by a Lead Standardization Activity (LSA) that identifies standardization opportunities, problems, and objectives, and establishes milestones for accomplishing standardization goals and specific tasks in a FSC, FSG, or standardization area.
- **s. Standardization Project.** A standardization project is an effort approved by the cognizant LSA to develop, update, cancel, or adopt a standardization document, or conduct an item reduction study or engineering practice study.
- **t. Symbology.** Symbology is a specifically defined sign used to represent an object or feature.
- **u.** Warfighting Symbology. Warfighting symbology is used in the planning and execution of military operations in support of C4I functions and activities.

APPENDIX B

REFERENCES

- a. JIEO Plan 3200, Information Technology Standards Management Plan, November 1993.
- **b.** OSD Memorandum, "Implementation of Corporate Information Management Principles," November 16, 1990.
- **c.** ASD(C3I) Memorandum for Director, Defense Information Systems Agency, "Executive Agent for DOD Information Standards," September 3, 1991.
- d. MIL-STD-973, Configuration Management, April 17, 1992.
- e. Symbology Standards Management Committee (SSMC) Charter, March 5, 1996.
- **f.** DOD 5200.1-R, Security Classification and Safeguards Program Regulation, 1996.
- g. DODD 5230.9, Clearance of DOD Information for Public Release, April 9, 1996.
- **h.** JIEO, Configuration Management Policy, Global Command and Control System (GCCS), April 3, 1995.

APPENDIX C CHANGE PROPOSAL FORM

SYMBOLOGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM					
CHANGE PROPOSAL NUMBER	MIL				
ORIGINATOR SPONSOR	DATE RECEIVED DATE OF ACTION				
CHANGE PROPOSAL TITLE					
COMMENT					
COMMENT					
JIEO ANALYSIS					
ACTION TAKEN					

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